



## DEFENSE INFORMATION SYSTEMS AGENCY

JOINT INTEROPERABILITY TEST COMMAND  
FORT HUACHUCA, ARIZONA 85613-7020

IN REPLY

REFER TO C2 and Combat Support Systems  
Division (JTD)

Jul 02, 2001

### MEMORANDUM FOR DISTRIBUTION

SUBJECT: Joint Interoperability Test Certification of the  
Joint Air Defense Systems Integrator (Joint  
ADSI), Specified Interfaces, version 11.103.4

References: (a) DOD Directive 4630.5, "Compatibility,  
Interoperability, and Integration of Command,  
Control, Communications, and Intelligence  
(C3I) Systems," November 12, 1992

(b) CJCSI 6212.01B, "Interoperability and  
Supportability of National Security Systems,  
and Information Technology Systems," May 8, 2000

(c) CONFIDENTIAL JITC Report, "Joint  
Interoperability Test 01-03 Report (U)," June  
1, 2001

1. References (a) and (b) establish the Defense Information Systems Agency (DISA), Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The Joint Air Defense Systems Integrator (Joint ADSI), version 11.103.4, meets some of its interoperability requirements, and specified interfaces are certified as interoperable for joint use. However, the overall system is not certified because of untested interfaces. Where possible, JITC assessed the individual interface interoperability status. The results are below. Of the interfaces tested, two preexisting problems have a critical operational impact. However, one of the problems was tested during United States Army Service Level Testing and appeared to be fixed. It could not be tested during Joint Interoperability Test (JIT) 01-03 due to testbed limitations. The JITC reviewed the other problem and does not deem it critical. The JITC has deferred this second problem for further review and possible downgrading at the next Joint Analysis Review Panel (JARP) meeting. This certification expires

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upon changes that could affect interoperability, but no later than three years from the date of this memorandum.

3. JITC based this finding on interoperability testing conducted by a multiservice team from March 26 through April 12, 2001, at the JITC facility at Fort Huachuca, Arizona. The enclosed Certification Testing Summary describes the tested network and system configurations, the testing limitations, and the test results. JITC conducted JIT 01-03 in a distributed T-1 circuit laboratory network, replicating a network of Link 11/11B systems (Figure 2 of the enclosed Certification Testing Summary). System interoperability should be verified before deployment in an operational environment that varies significantly from the test environment.

4. Table 1 depicts the interoperability status of Joint ADSI. The Link 11/11B interfaces tested used the system's implemented Link 11/11B messages as provided by the Army and defined in the Tactical Digital Information Link (TADIL) A/B Message Standard (MIL-STD-6011B). The messages implemented by Joint ADSI represent a subset of all Link 11/11B messages that satisfy its system-unique information exchange requirements and the minimum data exchange requirements identified in MIL-STD-6011B.

**Table 1. Joint ADSI Interoperability Status**

INTERFACE	SYSTEM VERSION	TEST / CERT DATE	STATUS	REMARKS
ATDL-1			Not Tested	
FDL			Not Tested	
IDL			Not Tested	
Serial Link 11 Transmit to Joint GCCS	11.103.4	JIT 01-03 / Jul 2001	Certified	No deficiencies.
Link 11 to Serial Link 11 Forwarding to Joint GCCS	11.103.4	JIT 01-03 / Jul 2001	Certified	No deficiencies.
JST			Not Tested	Scheduled for testing in JIT 01-04.

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**Table 1. Joint ADSI Interoperability Status (continued)**

INTERFACE	SYSTEM VERSION	TEST / CERT DATE	STATUS	REMARKS
Link 11	11.103.4	JIT 01-03 / Jul 2001	Certified	Some deficiencies with moderate operational impact.
Link 11B	11.103.4	JIT 01-03 / Jul 2001	Certified	Some deficiencies with moderate operational impact.
Link 11/11B Forwarding	11.103.4	JIT 01-03 / Jul 2001	Certified	Two deficiencies with critical operational impact. Further discussions are in reference (c).
Link 11/16 Forwarding			Not Tested	
Link 16			Not Tested	Scheduled for testing in JIT 01-04.
NATO Link 1			Not Tested	
OTH-GOLD			Not Tested	
TIBS			Not Tested	
USMTF			Not Tested	

Legend:	
ATDL-1	Army Tactical Data Link 1
FDL	Forward Area Air Defense (FAAD) Data Link
IDL	International Data Link
JST	Joint Interface Control Officer Support Tool
NATO	North Atlantic Treaty Organization
OTH-GOLD	Over the Horizon - GOLD
TIBS	Tactical Information Broadcast System
USMTF	United States Message Text Formatting

5. JITC disseminates certification testing information to the Department of Defense (DoD) community via the Joint Interoperability Tool (JIT), which resides on the Secret Internet Protocol Router Network (SIPRNET) at <http://199.208.204.125/> or at <http://198.17.54.202/> (mirror site), and on the Unclassified but Sensitive Internet Protocol Router Network (NIPRNET) at <http://jit.fhu.disa.mil/>. A copy of this certification memorandum and the Certification Testing Summary is available on

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the JIT. The preceding homepage contains instructions for  
obtaining access to JIT information.

6. The JITC point of contact is Mr. Michael Molidor, DSN 879-  
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FOR THE COMMANDER:

1 Enclosure a/s



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